

I Claim:

1. An universal connector structure specially designed for tools, it mainly comprises an initiative piece having a fitting hole for inserting various types of mechanical or hand tools, force is transmitted through said initiative piece, a concave hole is disposed at another end of said initiative piece, same number of a plurality of concave bodies and convex bodies are disposed evenly on said concave hole, said concave bodies having wider widths at their both ends, a concave groove is disposed near the periphery of said concave hole;

a stopping piece having a locking hole and an inserting hole at another end for inserting a ball body, said ball body having a plurality of protruded pieces disposed evenly under the middle line of said ball body;

an elastic limitation piece, which is disposed on a concave groove of said concave hole of said initiative piece, said elastic limitation piece having an inner hole which is placed on said inserting hole of said stopping piece;

accordingly, production cost is reduced, torque is enhanced and also having a wider range of angle degree for adjusting.

2. The present invention of an universal connector structure as claimed in Claim 1, said elastic limitation piece is in spiral shape, or a combination of rubber piece and spring or grommet, or a combination of elastic element and spring or grommet.

3. The present invention of an universal connector structure as claimed in Claim 1, said concave bodies, convex bodies and protruded pieces work best having four pieces each.

4. The present invention of an universal connector structure as claimed in Claim 1, said protruded pieces of said stopping piece can be formed as a cross shape on said ball body.

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